

Name: _____

Date: _____

Check if Relation is a Function (12 pts classwork, version 14)

1. A **relation** is expressed as a list of (x, y) ordered pairs.

$(4, 1)$ $(4, 7)$ $(1, 1)$ $(9, 6)$ $(3, 4)$ $(5, 5)$ $(3, 9)$

- Is this list consistent with y being a function of x ? Why or why not?

no

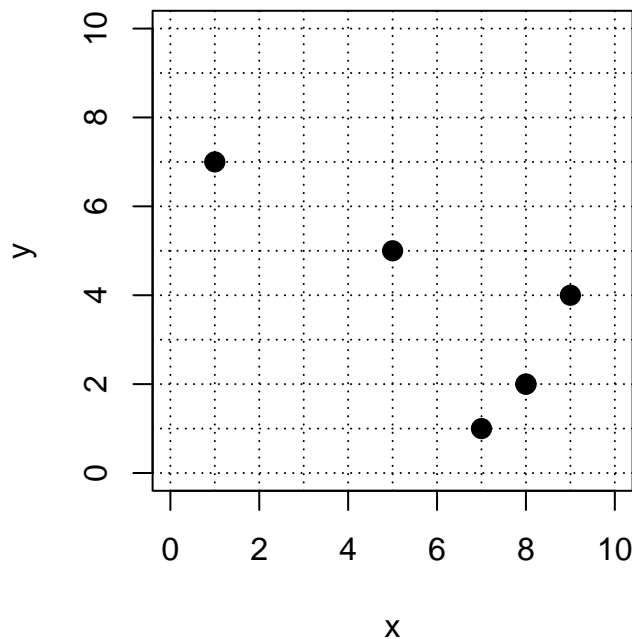
- Is this list consistent with x being a function of y ? Why or why not?

no

- Is this list consistent with a one-to-one function? Why or why not?

no

2. A relation is shown as points on a graph.



- Is this relation consistent with y being a function of x ? Why or why not?

yes

- Is this relation consistent with x being a function of y ? Why or why not?

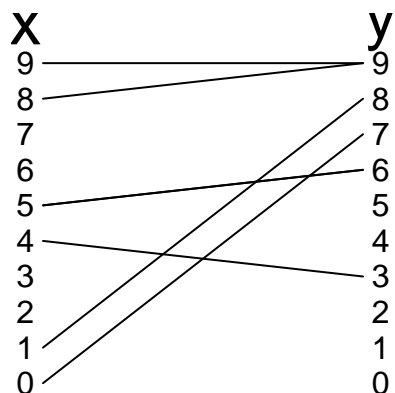
yes

- Is this relation consistent with a one-to-one function? Why or why not?

yes

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3. A relation is shown with segments connecting elements of two sets.



- Is this relation consistent with y being a function of x ? Why or why not?

yes

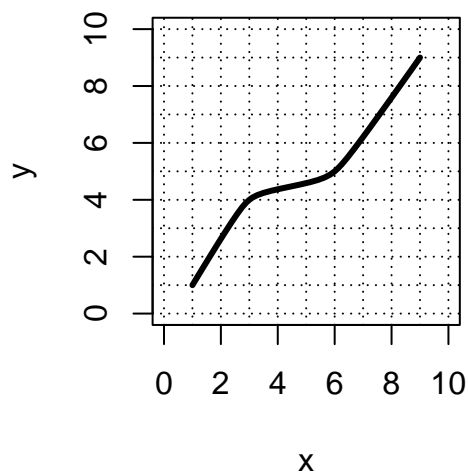
- Is this relation consistent with x being a function of y ? Why or why not?

no

- Is this relation consistent with a one-to-one function? Why or why not?

no

4. A relation is shown as a curve plotted on an x, y



- Is this relation consistent with y being a function of x ? Why or why not?

yes

- Is this relation consistent with x being a function of y ? Why or why not?

yes

- Is this relation consistent with a one-to-one function? Why or why not?

yes